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Occupational Employment and Wages in Rochester — May 2015

Workers in the Rochester Metropolitan Statistical Area had an average (mean) hourly wage of \$22.88 in May 2015, not measurably different from the nationwide average of \$23.23, according to the U.S. Bureau of Labor Statistics. Chief Regional Economist Martin Kohli noted that, after testing for statistical significance, wages in the local area were higher than their respective national averages in 3 of the 22 major occupational groups. Eight groups had significantly lower wages than their respective national averages, including legal; computer and mathematical; and life, physical, and social science.

When compared to the nationwide distribution, local employment was more highly concentrated in 7 of the 22 occupational groups, including education, training, and library; office and administrative support; and community and social service. Conversely, 10 groups had employment shares significantly below their national representation, including transportation and material moving; business and financial operations; and construction and extraction. (See [table A](#) and [box note](#) at end of release.)

Table A. Occupational employment and wages by major occupational group, United States and the Rochester Metropolitan Statistical Area, and measures of statistical significance, May 2015

| Major occupational group | Percent of total employment | | Mean hourly wage | | |
|--|-----------------------------|-----------|------------------|-----------|-----------------------------------|
| | United States | Rochester | United States | Rochester | Percent difference ⁽¹⁾ |
| Total, all occupations | 100.0% | 100.0% | \$23.23 | \$22.88 | -2 |
| Management | 5.0 | 4.5* | 55.30 | 54.32 | -2 |
| Business and Financial Operations..... | 5.1 | 4.4* | 35.48 | 33.83* | -5 |
| Computer and Mathematical | 2.9 | 3.3* | 41.43 | 34.80* | -16 |
| Architecture and Engineering..... | 1.8 | 2.1* | 39.89 | 37.12* | -7 |
| Life, Physical, and Social Science..... | 0.8 | 0.6* | 34.24 | 29.28* | -14 |
| Community and Social Service | 1.4 | 2.1* | 22.19 | 21.76 | -2 |
| Legal..... | 0.8 | 0.7* | 49.74 | 40.09* | -19 |
| Education, Training, and Library..... | 6.2 | 8.8* | 25.48 | 28.70 | 13 |
| Arts, Design, Entertainment, Sports, and Media | 1.3 | 1.4 | 27.39 | 24.98* | -9 |
| Healthcare Practitioners and Technical | 5.8 | 6.4* | 37.40 | 33.02* | -12 |
| Healthcare Support | 2.9 | 2.9 | 14.19 | 13.90 | -2 |
| Protective Service | 2.4 | 2.0* | 21.45 | 24.23* | 13 |
| Food Preparation and Serving Related | 9.1 | 8.5* | 10.98 | 11.09 | 1 |
| Building and Grounds Cleaning and Maintenance.. | 3.2 | 3.2 | 13.02 | 13.28 | 2 |
| Personal Care and Service | 3.1 | 3.4* | 12.33 | 12.89* | 5 |
| Sales and Related | 10.5 | 10.1 | 18.90 | 18.99 | 0 |
| Office and Administrative Support | 15.8 | 16.7* | 17.47 | 17.64 | 1 |
| Farming, Fishing, and Forestry | 0.3 | 0.1* | 12.67 | 14.59* | 15 |
| Construction and Extraction | 4.0 | 3.3* | 22.88 | 23.00 | 1 |
| Installation, Maintenance, and Repair | 3.9 | 3.6* | 22.11 | 21.71 | -2 |
| Production | 6.6 | 6.9 | 17.41 | 17.66 | 1 |

Note: See footnotes at end of table.

Table A. Occupational employment and wages by major occupational group, United States and the Rochester Metropolitan Statistical Area, and measures of statistical significance, May 2015 - Continued

| Major occupational group | Percent of total employment | | Mean hourly wage | | |
|--|-----------------------------|-----------|------------------|-----------|-----------------------------------|
| | United States | Rochester | United States | Rochester | Percent difference ⁽¹⁾ |
| Transportation and Material Moving | 6.9 | 4.9* | 16.90 | 15.76* | -7 |

Footnotes:

(1) A positive percent difference measures how much the mean wage in Rochester is above the national mean wage, while a negative difference reflects a lower wage.

* The percent share of employment or mean hourly wage for this area is significantly different from the national average of all areas at the 90-percent confidence level.

One occupational group—education, training, and library—was chosen to illustrate the diversity of data available for any of the 22 major occupational categories. Rochester had 44,910 jobs in education, training, and library, accounting for 8.8 percent of local area employment, significantly higher than the 6.2-percent share nationally. The average hourly wage for this occupational group locally was \$28.70, compared to the national wage of \$25.48.

Some of the larger detailed occupations within the education, training, and library group included teacher assistants (7,770), secondary school teachers, except special and career/technical education (6,160), and elementary school teachers, except special education (4,650). Among the higher paying jobs were postsecondary physics teachers and postsecondary economics teachers, with mean annual wages of \$170,640 and \$155,840, respectively. At the lower end of the wage scale were library technicians (\$25,410) and preschool teachers, except special education (\$32,320). (Detailed occupational data for education, training, and library are presented in [table 1](#); for a complete listing of detailed occupations available go to www.bls.gov/oes/2015/may/oes_40380.htm.)

Location quotients allow us to explore the occupational make-up of a metropolitan area by comparing the composition of jobs in an area relative to the national average. (See [table 1](#).) For example, a location quotient of 2.0 indicates that an occupation accounts for twice the share of employment in the area than it does nationally. In the Rochester Metropolitan Statistical Area, above-average concentrations of employment were found in many of the occupations within the education, training, and library group. For instance, postsecondary engineering teachers were employed at 4.1 times the national rate in Rochester, and secondary school special education teachers, at 3.0 times the U.S. average. On the other hand, middle school teachers, except special and career/technical education had a location quotient of 1.0 in Rochester, indicating that this particular occupation's local and national employment shares were similar.

These statistics are from the Occupational Employment Statistics (OES) survey, a federal-state cooperative program between BLS and State Workforce Agencies, in this case, the New York State Department of Labor.

Notes on Occupational Employment Statistics Data

With the issuance of data for May 2015, the OES program has incorporated redefined metropolitan area definitions as designated by the Office of Management and Budget. OES data are available for 394 metropolitan areas, 38 metropolitan divisions, and 167 OES-defined nonmetropolitan areas. A listing of the areas and their definitions can be found at www.bls.gov/oes/current/msa_def.htm.

A value that is statistically different from another does not necessarily mean that the difference has economic or practical significance. Statistical significance is concerned with the ability to make confident statements about a universe based on a sample. It is entirely possible that a large difference between two values is not significantly different statistically, while a small difference is, since both the size and heterogeneity of the sample affect the relative error of the data being tested.

Technical Note

The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. The OES program produces employment and wage estimates for over 800 occupations for all industries combined in the nation; the 50 states and the District of Columbia; 432 metropolitan areas and divisions; 167 nonmetropolitan areas; and Guam, Puerto Rico, and the U.S. Virgin Islands. National estimates are also available by industry for NAICS sectors, 3-, 4-, and selected 5- and 6-digit industries, and by ownership across all industries and for schools and hospitals. OES data are available at www.bls.gov/oes/tables.htm.

OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 sampled establishments in May and November each year. May 2015 estimates are based on responses from six semiannual panels collected over a 3-year period: May 2015, November 2014, May 2014, November 2013, May 2013, and November 2012. The overall national response rate for the six panels is 73.5 percent based on establishments and 69.6 percent based on weighted sampled employment. The unweighted employment of sampled establishments across all six semiannual panels represents approximately 57.9 percent of total national employment. (Response rates are slightly lower for these estimates due to the federal shutdown in October 2013.) The sample in the Rochester Metropolitan Statistical Area included 3,755 establishments with a response rate of 76 percent. For more information about OES concepts and methodology, go to www.bls.gov/news.release/ocwage.tn.htm.

The May 2015 OES estimates are based on the 2010 Standard Occupational Classification (SOC) system and the 2012 North American Industry Classification System (NAICS). Information about the 2010 SOC is available on the BLS website at www.bls.gov/soc and information about the 2012 NAICS is available at www.bls.gov/bls/naics.htm.

Metropolitan area definitions

The substate area data published in this release reflect the standards and definitions established by the U.S. Office of Management and Budget.

The **Rochester, N.Y. Metropolitan Statistical Area** includes Livingston, Monroe, Ontario, Orleans and Wayne Counties.

Additional information

OES data are available on our regional web page at www.bls.gov/regions/new-york-new-jersey. Answers to frequently asked questions about the OES data are available at www.bls.gov/oes/oes_ques.htm. Detailed technical information about the OES survey is available in our Survey Methods and Reliability Statement on the BLS website at www.bls.gov/oes/2015/may/methods_statement.pdf.

Information in this release will be made available to sensory impaired individuals upon request. Voice phone: (202) 691-5200; Federal Relay Service: (800) 877-8339.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Rochester Metropolitan Statistical Area, May 2015

| Occupation ⁽¹⁾ | Employment | | Mean wages | |
|---|----------------------|----------------------------------|------------|-----------------------|
| | Level ⁽²⁾ | Location quotient ⁽³⁾ | Hourly | Annual ⁽⁴⁾ |
| Education, Training, and Library Occupations..... | 44,910 | 1.4 | \$28.70 | \$59,710 |
| Business Teachers, Postsecondary | 680 | 2.2 | (5) | 90,740 |
| Computer Science Teachers, Postsecondary | 320 | 2.6 | (5) | 104,830 |
| Mathematical Science Teachers, Postsecondary | 480 | 2.4 | (5) | 93,730 |
| Engineering Teachers, Postsecondary | 570 | 4.1 | (5) | 124,360 |
| Biological Science Teachers, Postsecondary | 240 | 1.3 | (5) | 101,130 |
| Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary | 70 | 1.7 | (5) | (5) |
| Chemistry Teachers, Postsecondary | 160 | 2.1 | (5) | 108,800 |
| Physics Teachers, Postsecondary | 190 | 3.7 | (5) | 170,640 |
| Area, Ethnic, and Cultural Studies Teachers, Postsecondary | 90 | 2.7 | (5) | (5) |
| Economics Teachers, Postsecondary | 80 | 1.6 | (5) | 155,840 |
| Political Science Teachers, Postsecondary | 90 | 1.4 | (5) | 121,140 |
| Psychology Teachers, Postsecondary | 210 | 1.5 | (5) | 105,310 |
| Sociology Teachers, Postsecondary | 70 | 1.2 | (5) | 74,170 |
| Health Specialties Teachers, Postsecondary | 1,570 | 2.4 | (5) | 137,970 |
| Nursing Instructors and Teachers, Postsecondary | 430 | 2.0 | (5) | 99,790 |
| Education Teachers, Postsecondary | 380 | 1.7 | (5) | 85,740 |
| Criminal Justice and Law Enforcement Teachers, Postsecondary | 130 | 2.4 | (5) | 43,590 |
| Social Work Teachers, Postsecondary | 90 | 2.0 | (5) | (5) |
| Art, Drama, and Music Teachers, Postsecondary | 710 | 2.0 | (5) | 106,300 |
| Communications Teachers, Postsecondary | 100 | 0.9 | (5) | 61,840 |
| English Language and Literature Teachers, Postsecondary | 400 | 1.4 | (5) | 84,310 |
| Foreign Language and Literature Teachers, Postsecondary | 160 | 1.4 | (5) | 78,450 |
| History Teachers, Postsecondary | 170 | 2.0 | (5) | 124,650 |
| Philosophy and Religion Teachers, Postsecondary | 150 | 1.7 | (5) | 101,650 |
| Graduate Teaching Assistants | 270 | 0.6 | (5) | 59,080 |
| Recreation and Fitness Studies Teachers, Postsecondary | 110 | 1.6 | (5) | 64,540 |
| Vocational Education Teachers, Postsecondary | 370 | 0.8 | 28.38 | 59,030 |
| Postsecondary Teachers, All Other | 970 | 1.4 | (5) | 142,350 |
| Preschool Teachers, Except Special Education | 1,650 | 1.2 | 15.54 | 32,320 |
| Kindergarten Teachers, Except Special Education | 460 | 0.8 | (5) | 57,600 |
| Elementary School Teachers, Except Special Education | 4,650 | 0.9 | (5) | 59,830 |
| Middle School Teachers, Except Special and Career/Technical Education | 2,220 | 1.0 | (5) | 59,660 |
| Career/Technical Education Teachers, Middle School | 120 | 2.5 | (5) | 59,040 |
| Secondary School Teachers, Except Special and Career/Technical Education | 6,160 | 1.7 | (5) | 58,910 |
| Career/Technical Education Teachers, Secondary School | 380 | 1.3 | (5) | 64,050 |
| Special Education Teachers, Preschool | 110 | 1.1 | (5) | 48,610 |
| Special Education Teachers, Kindergarten and Elementary School | 1,230 | 1.7 | (5) | 62,460 |
| Special Education Teachers, Middle School | 580 | 1.7 | (5) | 59,120 |
| Special Education Teachers, Secondary School | 1,420 | 3.0 | (5) | 61,160 |
| Special Education Teachers, All Other | 30 | 0.2 | (5) | 47,910 |
| Adult Basic and Secondary Education and Literacy Teachers and Instructors | 210 | 0.9 | 23.61 | 49,100 |
| Self-Enrichment Education Teachers | 1,790 | 2.2 | 22.32 | 46,420 |
| Teachers and Instructors, All Other, Except Substitute Teachers | 400 | 0.4 | (5) | 48,030 |
| Substitute Teachers | 4,120 | 1.8 | 16.68 | 34,690 |

Note: See footnotes at end of table.

Table 1. Employment and wage data from the Occupational Employment Statistics survey, by occupation, Rochester Metropolitan Statistical Area, May 2015 - Continued

| Occupation ⁽¹⁾ | Employment | | Mean wages | |
|---|----------------------|----------------------------------|------------|-----------------------|
| | Level ⁽²⁾ | Location quotient ⁽³⁾ | Hourly | Annual ⁽⁴⁾ |
| Curators..... | 70 | 1.6 | 29.09 | 60,520 |
| Museum Technicians and Conservators | 30 | 0.8 | 23.51 | 48,900 |
| Librarians..... | 710 | 1.5 | 26.87 | 55,900 |
| Library Technicians..... | 410 | 1.2 | 12.22 | 25,410 |
| Audio-Visual and Multimedia Collections Specialists | 180 | 4.7 | 17.21 | 35,800 |
| Instructional Coordinators | 610 | 1.2 | 31.55 | 65,610 |
| Teacher Assistants | 7,770 | 1.7 | (5) | 25,920 |
| Education, Training, and Library Workers, All Other | 70 | 0.2 | 27.80 | 57,830 |

Footnotes:

(1) For a complete listing of all detailed occupations in the Rochester, NY, area, see www.bls.gov/oes/current/oes_40380.htm.

(2) Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

(3) The location quotient is the ratio of the area concentration of occupational employment to the national average concentration. A location quotient greater than one indicates the occupation has a higher share of employment than average, and a location quotient less than one indicates the occupation is less prevalent in the area than average.

(4) Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

(5) Estimate not released.